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CUSTO LAN EIB

User Manual

MEDIA BUS CONTROL

CE
made in france

THANK YOU & CONGRATULATIONS:

Thank you for purchasing the CUSTO LAN EIB controller of VITY Media Bus Control® automation system. CUSTO LAN EIB is a small controller that enables to drive EIB-KNX and X-10 by Vimaty touch panels or by TCP/IP. This manual is made to assist you to install the CUSTO LAN EIB

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CE

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Read carefully this manual before installing the Custo LAN EIB.
The manufacturer won't be responsible for any damages or incidents even caused by a correct use of his products.
The data and the characteristics of the product can be modified without any previous report.

1-PRESENTATION

Custo LAN EIB is an interface for linking EIB-KNX or X-10 network to the Media Bus Control (RS485) network or Ethernet. It also can be used as a MBC <-> Ethernet network gateway. The device can be powered by external power supply or directly by Ethernet network if it is compliant to the 802.30f norm.

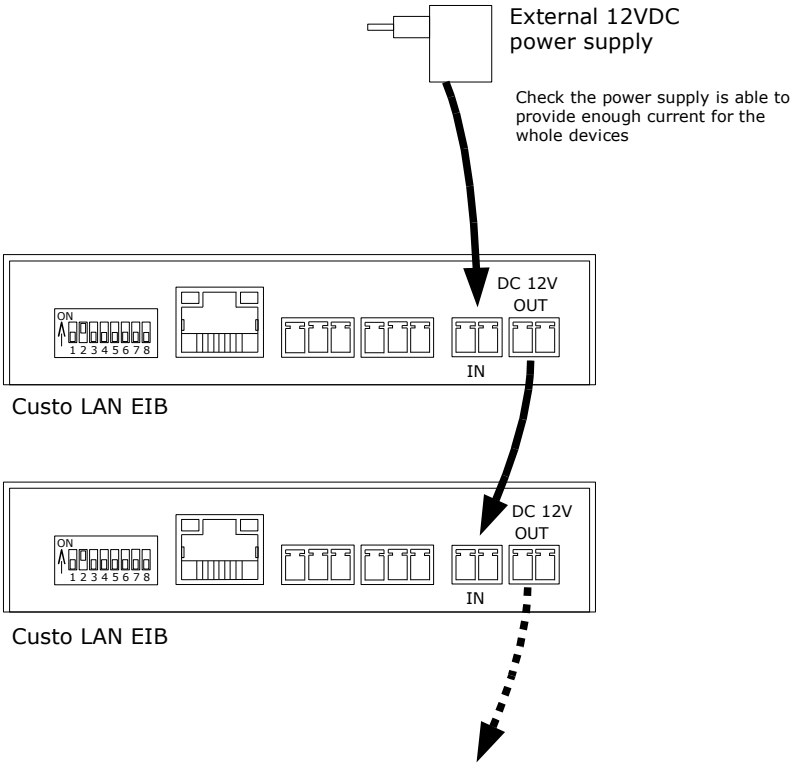
2-INSTALLATION

2.1-External power supply

The external power supply have to provide 50 mA at 12Vdc. You can connect the power supply on the IN connector or OUT connector DC12V. It is possible to connect a second device by the second connector. Check that the power suplly is able to provide a enough electric current for the 2 devices. The connector used for the external power supply is a screwtype Phoenix connector. Its reference is: MC1,5/2-ST-3,81.

Connector MC1,5/2-G-3,81

Borne	***Signal***
1	GND
2	+12Vdc

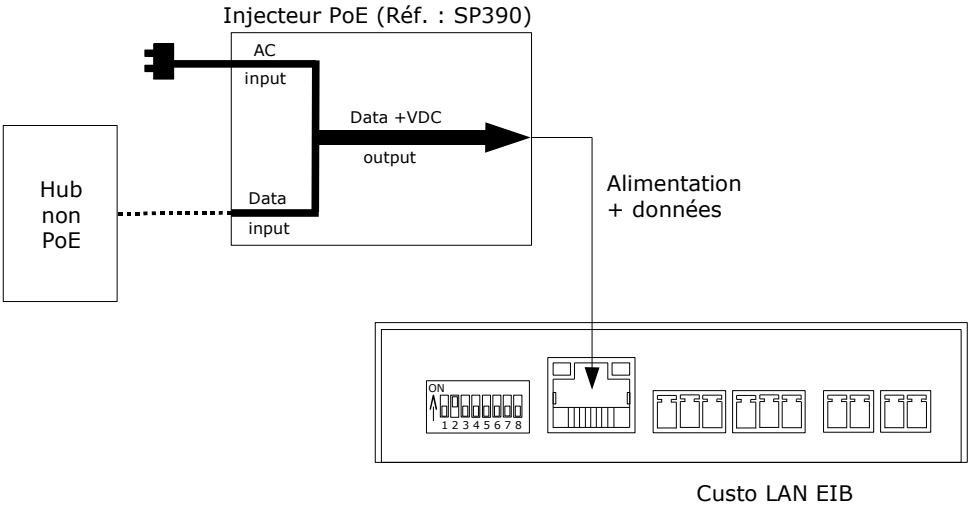


Caution : Not to connect 2 external power supply at the same time on connectors DC 12V IN and OUT

2.2-Power supply PoE

It's possible to connect directly Custo LAN EIB by connector RJ45 if the network meets the standard 802.3af. A voltage of 12Vdc IN and OUT. IT is thus possible to supply a second apparatus by these connectors. But the current consumed by this apparatus should not exceed 500 Ma.

If the network doesn't meet the standard 802.3af, it's possible to use an injector PoE (Reference: SP390) to feed the chart via connector RJ45.



2.3-Connexion RS485

Stitching connector MC1,5/3-G-3,81

Borne	***Signal***
1	Tx/Rx +
2	Tx/Rx -
3	GND

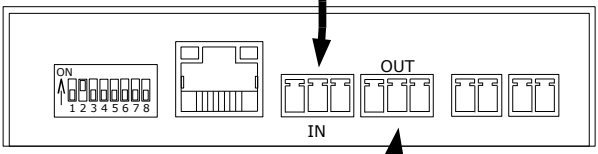
You can indifferently connect bus RS485 on IN RS485 or OUT RS485. The 2nd connecto is only used to facilitate the chaining of the charts.

Screens Vimaty 35B, 35S,35-EIB, 70S, 70-EIB, Keyboards PADMATY 20S and 20-EIB must be connected to Custo LAN EIB by this bus.

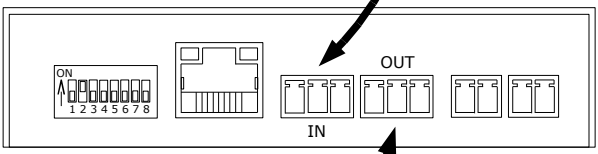
The power stations mediabus (XMONOPRO, MULTICUSTOM and MINIMONO) can be connected to this bus.

Écrans tactiles et claviers VITY

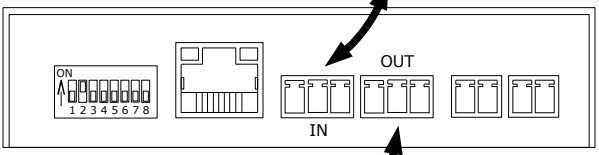
BUS RS485



Custo LAN EIB



Custo LAN RS



Custo LAN RL

Centrales MediaBus VITY

XMONOPRO

MULTI CUSTOM

MINIMONO

To be able to communicate on the bus RS485, each Custo LAN EIB must have an address. This address is defined by the dipswichs 1 to 8 located at with dimensions of connetor RF45 and indicated by serigraphy under term « ADDRESS ». This address makes it possible to differentialte the various charts Custo LAN present on bus RS485.

Configuration de l'adresse :

Adresse	***Dipswitch 1 à 8***	
1	Dipswitch 1 à OFF – all others in ON position	
2	Dipswitch 2 à OFF – all others in ON position	
3	Dipswitch 1 et 2 à OFF – all others in ON position	
253	Dipswitch 2 à ON – all others in OFF position	
254	Dipswitch 1 à ON – all others in OFF position	
255	All dipswitchs in OFF	

2.4-Connexion réseau Ethernet

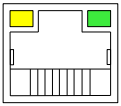
Right wiring between Custo LAN and HUB	
Side A	***Side B***
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8

Ordinary lay between Custo LAN and PC	
Side A	***Side B***
1	3
2	6
3	1
4	4
5	5
6	2
7	7
8	8

Note: cables 1 and 2 = 1 twisted pair
cables 3 and 6 = 1 twisted pair
cables 4 and 5 = 1 twisted pair
cables 7 and 8 = 1 twisted pair

Brochage RJ45 femelle

Borne	Signal
1	Tx+
2	Tx-
3	Rx+
4	In +48V (PoE)
5	In +48V (PoE)
6	Rx-
7	In -48V (PoE)
8	In -48V (PoE)



The cable must be used a cable 4 twisted pairs CAT5. To connect Custo LAN RL to HUB, should be used a right cable. To connect Custo LAN RL directly to a PC, it's necessary to use a cross cable (see preceding tables).

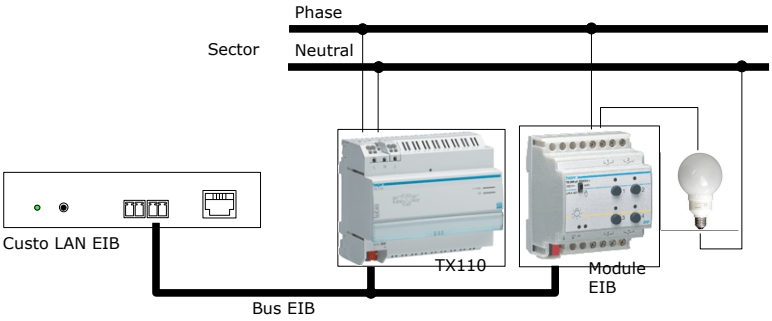
2.5-Interfaces transmission currents

2.5.1-Stitching EIB

STITCHING BASE PLATE Phoenix contact MC1,5/2-G-3,81

Borne	Signal
1	EIB -
2	EIB +

You can connect yourselves indifferently on one or the other of the connectors Phoenix Contact. The 2nd connector is only used to facilitate the chaining of apparatuses EIB.

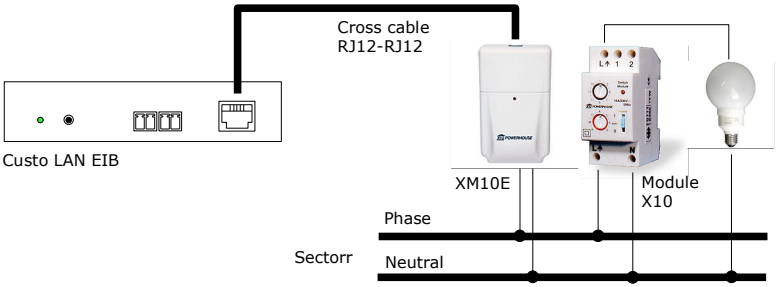


2.5.2-Stitching X10

Stitching base plate RJ12 6P/4C

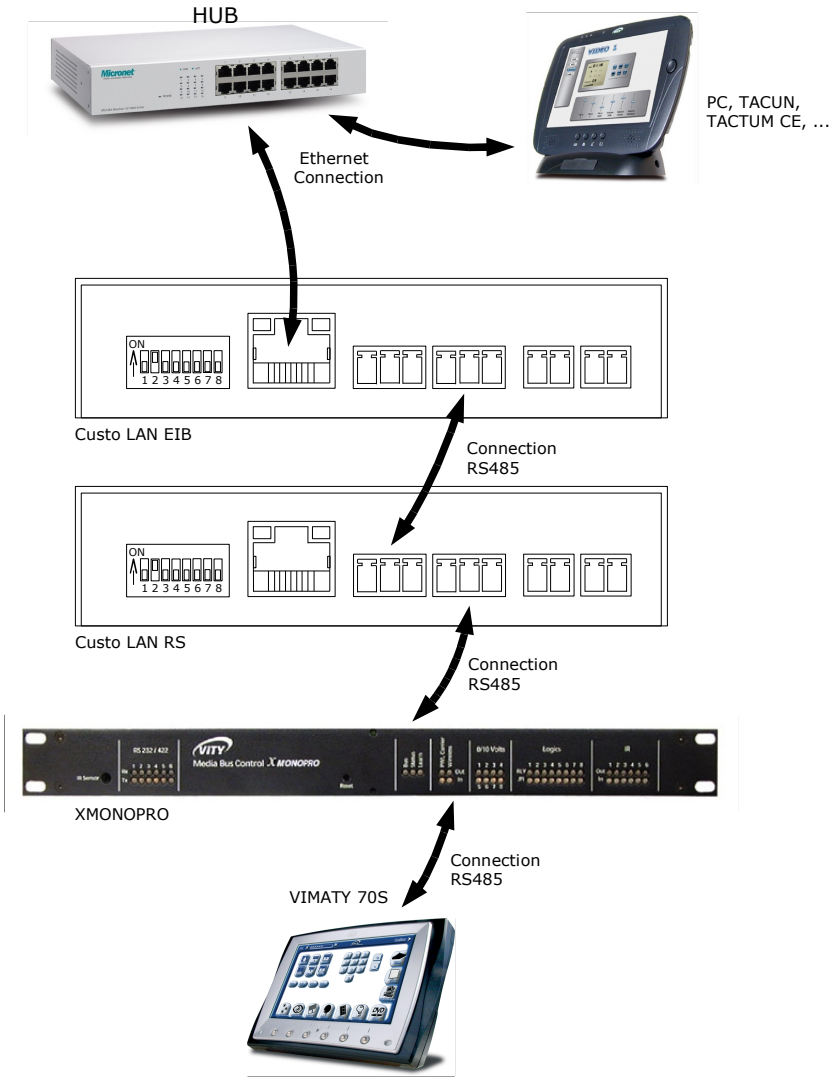
Borne	***Signal***
1	Zero Crossing
2	Com
3	Rx
4	Tx

Base plate RJ12 6P/4C must be connected to a module XM10E by a cross cable equipped with 2 connectors RJ12. Module XM10E allows connection to the sector while ensuring the insulation by opto-couplers.



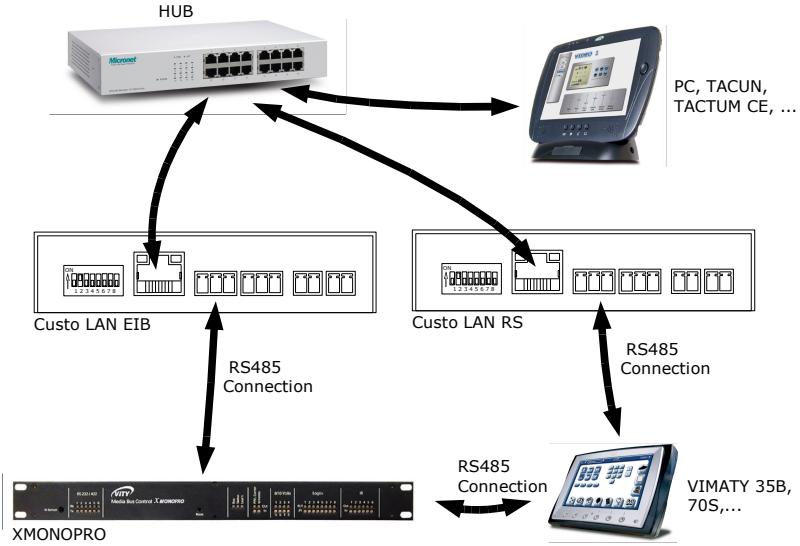
2.6-Mixed connection RS485-Ethernet

Custo LAN EIB can be used as Ethernet-Mediabus footbridge. It transfer the messages which are not intended to him towards the bus RS485 or Ethernet.

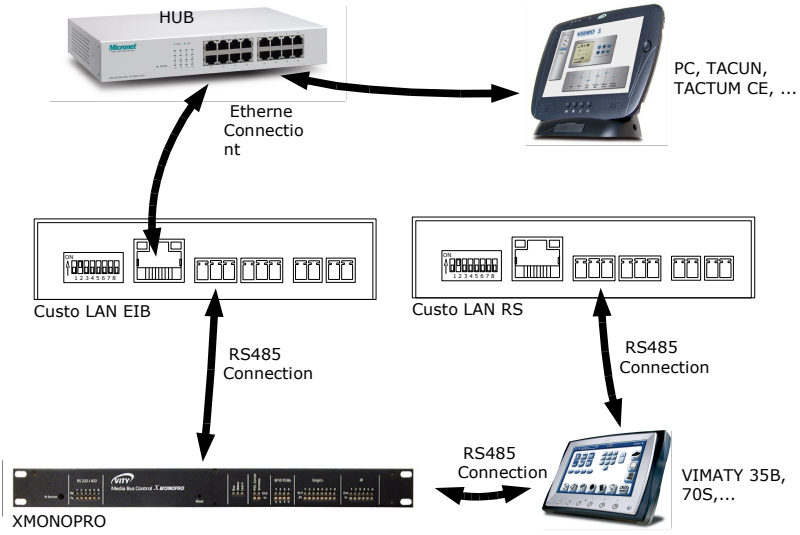


Because of the operating mode of custo LAN EIB, it's necessary to avoid connecting 2 charts Custo LAN at the same time on the same Ethernet network and same bus RS485.

Assembly to be avoided:

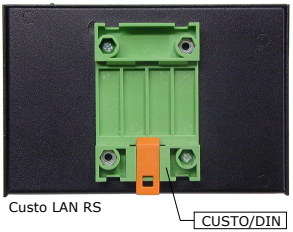


Prefer the following assembly:



2.7-Assembly on rail DIN

It's possible to install Custo LAN EIB on a rail DIN using option CUSTO/DIN. It's enough to fix this support rail DIN under the box using 2 screws M3 x 6mm.



3-OPERATION

With the powering, Custo LAN EIB sends the message of reset on bus RS485 and message UDP broadcast of identification on Ethernet. The le « ON » ignites, indicating the correct operation of the chart. If Custo LAN EIB is connected to the Ethernet network, the green led of connector RJ45 ignites. The yellow led of connector RJ45 ignites at the time of the reception or the emission of an Ethernet screen.

After configuration of the X10 standard used (Europe or the USA), the Custo LAN EIB card receives all the messages circulating on the bus X10 and transmits them on the Ethernet network and the Mediabus network. The chart also sends on the bus X10 all orders received via the bus Ethernet or Mediabus. These orders are consisted of the code house, of the number of the apparatus concerned and the function to be carried out.

For bus EIB, it's also necessary to configure the chart Custo LAN EIB. We must define his physical address and his address of group. As for the bus X10, Custo LAN EIB receives all messages EIB and transmits them on the network Ethernet and Mediabus. The card also makes it possible to send orders towards apparatuses EIB via Ethernet and Mediabus.

A button, positioned with dimensions base plates EIB and X10, allows the reset of the apparatus.

All valid orders RS485 (correct checksum), circulating on the bus, are sent on the Ethernet network in broadcast. Orders RS485 are encapsulated in a screen UDP with a wearing of recipent equal to 12000 and one heading of message made up of the 4 following ASCII characters « VITY ».

All the received orders UDP whose format corresponds to the definite protocole (see Ethernet protocol) are sent on bus RS485. That relates to on the one hand the orders whitch aren't intended fot Custo LAN EIB but for the charts and apparatuses connected on bus RS485. That relates to in addition the orders of sending of message towards the buses EIB and X10 connected to Custo LAN EIB. This transfer is carried out in order to hold informed the various apparatuses connected on bus RS485.

4-PROTOCOL

4.1-RS485 Protocol

4.1.1-Parameters of communication

Speed of communication : 115200 bauds.
Number of bits by character : 8.
Parity : whithout.
Number of bits of stop : 1.

Stitching: it's indicated on the top of the box by serigraphy and in the paragraph « connection RS485 ».

Connector to be used :
Manufacturer : Phoenix Contact reference : MC1,5/3-ST-3,81

NB : We can indifferently use the connector block « IN » or « OUT » to control the chart Custo LAN EIB.

4.1.2-Format of the orders

The orders respect the format defined for the Xmonopro power station with a ENQ equal to 0x14. The messages with general diffusion (reset of the chart, reception of data on a port series) uses the address targets 0xF0 (240 into decimal).

Structure of a message :
Heading + Standard of message + Number of data + Given + Checksum

Heading : 4 characters
1st character : adress target
2nd character : ENQ
3nd character : adress transmitter
4nd character : ENQ

with ENQ = 0x14 (hexadecimal), addresses target ranging between 1 and 255 and addresses transmitting ranging between 1 and 255.

Type of message : 2 characteres
1st character : 3 possibilites.
- ASCII character 'I' is 0x49 (hexadecimal) to indicate an order EIB.
- ASCII character 'P' is 0x50 (hexadecimal) to indicate an order X10.
- ASCII character 'T' is 0x54 (hexadecimal) in the event of reset or of identification.

2nd character : 3 possibilities.
- ASCII character 'C' is 0x43 (hexadecimal) to configure part EIB or X10.
- ASCII character 'E' is 0x45 (hexadecimal) in the event of reset or of reception of X10 message or EIB.
- ASCII character 'D' is 0x44 (hexadecimal) in the event of request for identification or emission of orders towards bus X10 or EIB.

Number of data : 1 character equal to the number of data present in the segment « Given» +1 .

Data : There are 8 possible messagers for a chart Custo LAN EIB. Two messages for a chart data. The message of X10 configuration has 1 of them. The message of configuration EIB has 4 of them.

The message of X10 reception has 2 of them. The message of X10 emission has 3 of them. The segment « Given » of messages EIB depends on the length on the messages EIB.

1) Message Reset : Type of message = « TE », number of data = 1, not of data.

2) Demande of identification : Type of message = « TD », number of data = 1, not of data.

3) Configuration EIB : Type of message = « IC », number of data = 5, 4 bytes of data = [Data 1] [Data 2] [Data 3] [Data 4]
   Data1 = addresses physical (msb)
   Data2 = addresses physical (lsb)
   Data3 = addresses of group (zone)
   Data4 = addresses of group (node)

4) Configuration X10 : Type of message = « PC », numbre of data = 2, 1 byte of data = 'U' (0x55) for the USA, 'E' (0x45) for Europe.

5) Envoi of order towards bus EIB : Type of message = « ID », number of data = number of useful data (n) + 1, given = Data 1, Data 2, ..., Data n.
   Data 1 : 1st control character EIB.

   Data n : Last control character EIB.

6) Envoi of order towards the bus X10 : Type of message = « PD », numbre of data = 4, given = Data 1, Data 2, Data 3.
   Data 1 : code house *.
   Data 2 : number of the apparatus *.
   Data 3 : function *.
   * to see table equivalence codes X10 and Data.

7) Reception of order EIB : Type of message = « IE », number of data = number of useful data (m) + 1, given = Data 1, Data 2, ..., Data m
   Data 1 : 1st character received on the bus EIB.

   Data m : Last character received on bus EIB.

8) Reception of X10 order : Type of message = « PE », number of data = 3, given = Data 1, Data 2.
   Data 1 : code house.
   Data 2 : number of the apparatus or function

Checksum : 2 characteres

1st character : 0x04 (hexadecimal)
2nd character : summon characters starting from the 1st character of the type of message until the 1st character of the checksum (0x04) included.

The response of a Custo LAN chart depends on the validity of the checksum of the received order.
Thise answer consists of a heading of 4 characters identical to the heading previously definite and of 2 additional natures.
If Si la commande est valide, le checksum aussi et que la carte n'est pas occupée à traiter une commande, la trame suivante est retournée :
en-tête + 0x06 (hexadécimal) + 0x15 (hexadécimal)
Si the order is valid, the checksum also and that the charts is not occupied treating an order, the following screen is turned over:
Heading + 0x08 (hexadecimal) + 0x15 (hexadecimal)
If not it screen is a follows :
Heading + 0x15 (hexadecimal) + 0x15 (hexadecimal)

Exemples :

- Stending of an order « ON » on a X10 apparatus of adress « 5 » and code house « A » towards the chart Custo LAN EIB of address 5, addresses transmitting 0xF2:

order dispatched :

Target	ENQ	Transmitter	ENQ	'P'	'D'	Nb				0x04	Checksum
0x05	0x14	0xF2	0x14	0x50	0x44	0x04	0x06	0x08	0x14	0x04	0x62

payment validates chart:

Target	ENQ	Transmitter	ENQ	ACK	NACK
0xF2	0x14	0x05	0x14	0x06	0x15

- X10 configuration of the chart Custo LAN EIB of address 8, addresses transmitting 0xF1 for Europe :

order dispatched :

target	ENQ	transmitter	ENQ	'P'	'C'	Nb	'E'	0x04	Checksum
0x08	0x14	0xF1	0x14	0x53	0x43	0x02	0x45	0x04	0xB2

payment validates chart:

target	ENQ	transmitter	ENQ	ACK	NACK
0xF1	0x14	0x08	0x14	0x06	0x15

- Reset of a chart Custo LAN EIB of address 1 :
  - 0xF0,0x14,0x01,0x14,0x54,0x45,0x01,0x04,0x9E

  0xF0 is the target by defect always used at the time of a reset.

- Ask identification of the card Custo LAN EIB of address 7 by a transmitter 0xF1:

order dispatched :
  - 0x07,0x14,0xF1,0x14,0x54,0x44,0x01,0x04,0x9D

payment validates chart:
  - 0xF1,0x14,0x07,0x14,0x06,0x15

Equivalence codes X10 - Data

Code House	*Data1*
A	0x06
B	0x07
C	0x04
D	0x05
E	0x08
F	0x09
G	0x0A
H	0x0B
I	0x0E
J	0x0F
K	0x0C
L	0x0D
M	0x00
N	0x01
O	0x02
P	0x03

Number apparatus	*Data 2*
1	0x06
2	0x07
3	0x04
4	0x05
5	0x08
6	0x09
7	0x0A
8	0x0B
9	0x0E
10	0x0F
11	0x0C
12	0x0D
13	0x00
14	0x01
15	0x02
16	0x03

Function	*Data3*
All Units Off	0x10
All Units On	0x18
On	0x14
Off	0x1C
Dim	0x12
Bright	0x1A

4.2-Protocol Ethernet

Speed : 10BaseT
Protocol UDP :

- use port 12000 in reception broadcast.
- Use port 12000 in diffusion broadcast.
- Use a port peronnalisable for the reception of orders.

4.2.1-Format of the orders.

This messages take again the format of the messages RS485 to which a heading is added consisted the chain of 4 characters: « VITY ». Like orders RS485, these messages UDP make it possible to configure buses X10 and EIB, to send and receive orders X10 and EIB. These orders use skeletal port UDP and can be sent to the chart Custo LAN EIB in broadcast or thanks to its address IP.

If address RS485 or character ENQ of the message doesn't correspond to those of Custo LAN EIB then the message is intended for another apparatus present on bus RS485. The message is then transferred on this bus.

Structure of the message

Heading « VITY » + message RS485 (Heading RS485 + standard message + nb given + given + checksum)

There are 6 principal orders: Configuration of the X10 part and EIB, sending of an order on bus X10 and EIB, and reception of a message on bus X10 and EIB.

Configuration of the X10 part:

'V'	'I'	'T'	'Y'	Cible	ENQ	Emet.	ENQ	'P'	'C'	Nb	Data1*	0x04	Checksum
0x56	0x49	0x54	0x59		0x14		0x14	0x50	0x43	0x02		0x04	

Configuration of the EIB part:

'V'	'I'	'T'	'Y'	Cible	ENQ	Emet.	ENQ	'I'	'C'	Nb	Data1*	Data2*	Data3*	Data4*
0x56	0x49	0x54	0x59		0x14		0x14	0x53	0x43	0x05				

0x04	Checksum
0x04	

Sending of an order on the bus X10 :

'V'	'I'	'T'	'Y'	Cible	ENQ	Emet.	ENQ	'P'	'D'	Nb	Data 1*	Data 2*	Data 3*	0x04
0x56	0x49	0x54	0x59		0x14		0x14	0x50	0x44	0x04				0x04

Checksum

Sending of an order on the bus EIB :

'V'	'I'	'T'	'Y'	Cible	ENQ	Emet.	ENQ	'I'	'D'	Nb	Data 1*	Data 2*	...	Data n*
0x56	0x49	0x54	0x59		0x14		0x14	0x49	0x44	n+1	0x43		...	

0x04	Checksum
0x04	

Reception of a message coming from the bus X10 :

'V'	'I'	'T'	'Y'	Cible	ENQ	Emet.	ENQ	'P'	'E'	Nb	Data 1*	Data 2*	0x04	Checksum
0x56	0x49	0x54	0x59		0x14		0x14	0x50	0x45	0x03			0x04	

Reception of a message coming from the bus EIB :

'V'	'I'	'T'	'Y'	Cible	ENQ	Emet.	ENQ	'I'	'E'	Nb	Data 1*	Data 2*	...	Data m*
0x56	0x49	0x54	0x59		0x14		0x14	0x49	0x45	m+1	0x43		...	

0x04	Checksum
0x04	

* to see protocol RS485

The payment of these messages, sent in broadcast, depends on the validity of the checksum. If the cheksum is correct, the screen contains the payment + the message sent:

'V'	'I'	'T'	'Y'	ENQ	ACK	ENQ	EOT	Cible	ENQ	Emet	...
0x56	0x49	0x54	0x59	0x14	0x06	0x14	0x04		0x14		...

If not it screen is :

'V'	'I'	'T'	'Y'	ENQ	NACK	ENQ	EOT
0x56	0x49	0x54	0x59	0x14	0x15	0x14	0x04

Another answer can be turned over if the chart Custo LAN EIB is already occupied treating a message RS485 or UDP. The received message will not be treated. In this case,the answer is as follows :

'V'	'I'	'T'	'Y'	'B'	'U'	'S'	'Y'
0x56	0x49	0x54	0x59	0x42	0x55	0x53	0x59

4.2.2-Order identification

This order makes it possible to identify the charts Custo LAN present on the local area network. This order UDP uses the port targets 12000. It's sent in Broadcast diffusion in order to be able to free itself from the parameters of the local area network.

Format of this order :

'V'	'I'	'T'	'Y'	'S'	'c'	'a'	'n'	' '	'C'	'u'	's'	't'	'o'
0x56	0x49	0x54	0x59	0x53	0x63	0x61	0x6E	0x20	0x43	0x75	0x73	0x74	0x6F

'L'	'A'	'N'	'?'
0x4C	0x41	0x4E	0x3F

To the reception of this Broadcast order, all the charts present on the local area network turn over the following message :

'V'	'I'	'T'	'Y'	'S'	'c'	'a'	'n'	' '	'C'	'u'	's'	't'	'o'
0x56	0x49	0x54	0x59	0x53	0x63	0x61	0x6E	0x20	0x43	0x75	0x73	0x74	0x6F

'L'	'A'	'N'	':'	'C'	'U'	'S'	'T'	'O'	'L'	'A'	'N'	'E'	'I'	'B'
0x4C	0x41	0x4E	0x3A	0x43	0x55	0x53	0x54	0x4F	0x4C	0x41	0x4E	0x45	0x49	0x42

Name of the chart : here CUSTOLANEIB – differs according to the type of chart

','	'1'	'.'	'0'	'.'	'0'	','	1	2	3	4	5	6	','
0x2C	0x41	0x4E	0x3F	0x53	0x63	0x2C	0x01	0x02	0x03	0x04	0x05	0x06	0x2C

Number of version: depends on the software installed in the microcontrolor

Adresse MAC : different for each chart

192	168	0	33	','	37	39	','	4	','	192	168	0	1
0xC0	0xA8	0x00	0x21	0x2C	0x25	0x27	0x2C	0x04	0x2C	0xC0	0xA8	0x00	0x01

Addresse IP : different for each chart

Local port UDP

addresse RS485

Footbridge: differ for each local area network

','	255	255	255	0
0x2C	0xFF	0xFF	0xFF	0x00

Address of under network: different for each local area network

This message is turned over towards address IP of the shipper of the ordering of identification with for port UDP recipient the port source of the shipper.

This message is also sent on the Ethernet network in broadcast with for port recipient 12000 after a reset of Custo LAN EIB .

4.2.3-Ask name

This order makes it possible to obtain the name of a chart Custo LAN. The PC sends following order UDP towards address IP of the target with like wearing of recipient the local port of the target chart:

'V'	'I'	'T'	'Y'	'n'	'o'	'm'	'_'	'c'	'a'	'r'	't'	'e'	'?'
0x56	0x49	0x54	0x59	0x6E	0x6F	0x6D	0x5F	0x63	0x61	0x72	0x74	0x65	0x3F

The chart discharges with the following screen:

'V'	'I'	'T'	'Y'	ENQ	ACK	ENQ	EOT
0x56	0x49	0x54	0x59	0x14	0x06	0x14	0x04

The chart sends then the message containing its name:

'V'	'I'	'T'	'Y'	'n'	'o'	'm'	'_'	'c'	'a'	'r'	't'	'e'	':'
0x56	0x49	0x54	0x59	0x6E	0x6F	0x6D	0x5F	0x63	0x61	0x72	0x74	0x65	0x3A

'C'	'U'	'S'	'T'	'O'	'L'	'A'	'N'	'E'	'I'	'B'
0x43	0x55	0x53	0x54	0x4F	0x4C	0x41	0x4E	0x45	0x49	0x42

4.2.4-Ask version

This order allows to obtain the version of OS in progress in the chart custo LAN. The PC sends following order UDP towards address IP of the target with like wearing of recipient the local port of the target chart :

'V'	'I'	'T'	'Y'	'v'	'e'	'r'	's'	'i'	'o'	'n'	'?'
0x56	0x49	0x54	0x59	0x76	0x65	0x72	0x73	0x69	0x6F	0x6E	0x3F

The chart discharges with the following screen

'V'	'I'	'T'	'Y'	ENQ	ACK	ENQ	EOT
0x56	0x49	0x54	0x59	0x14	0x06	0x14	0x04

The chart sends then the message containing the version in progress of the software:

'V'	'I'	'T'	'Y'	'v'	'e'	'r'	's'	'i'	'o'	'n'	':'	'1'	'.'
0x56	0x49	0x54	0x59	0x76	0x65	0x72	0x73	0x69	0x6F	0x6E	0x3A	0x31	0x2E

'0'	'.'	'0'
0x30	0x2E	0x30

The number of version is coded on 3 ASCII characters separated by points.

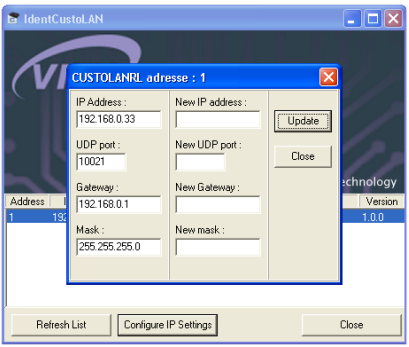
5-CONFIGURATION OF THE PARAMETERS NETWORK

To carry out the program IdentCusto LAN.

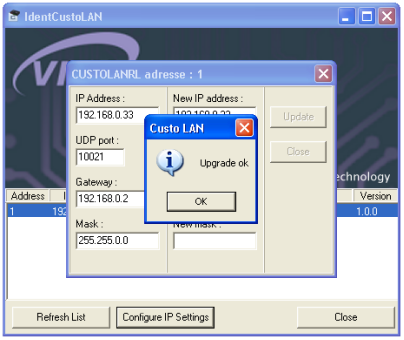
The software scanne all the charts Custo LAN present onthe local area network even if their address doesn't belong to this network.

Select Custo LAN of which you wish to change the Ethernet parameters. Press on the button « Configure IP Settings » or double click on the line posting the parameters of Custo LAN.

You can change address IP, port UDP, the footbridge and the mask of sub-network. Enter the new Ethernet parameters and validate while supporting on « UPDATE ».

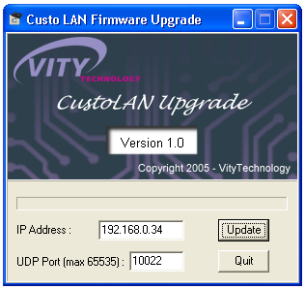


When the update is finished, press on button « OK » and close the application.

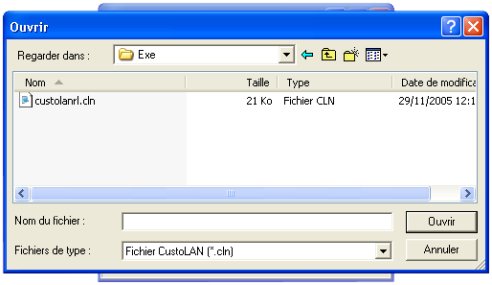


6-UPDATE OF OS

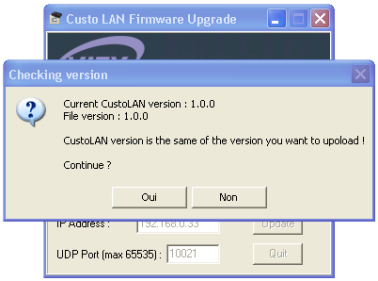
Launch the MajCustoLAN program.



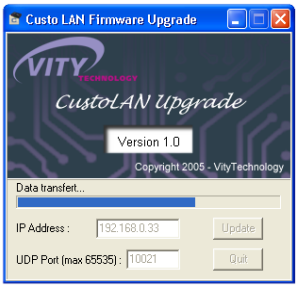
Enter address IP and the port UDP of the target. Support them on « Update ». Select the update file. The file must have an extension of the type « .cln ».



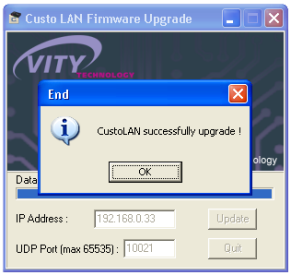
Confirm the update. According to the number of version of the update and version currently present in Custo LAN EIB, the message can be different.



The update starts.



When the update is finished, the following window appears:



Support on « OK » to finish the update.

Custo LAN EIB reset automatically at the end of the transfer of the date to update its OS.

NB : IF CUSTO LAN EIB EAST CONNECTS ON THE LOCAL AREA NETWORK TO WHICH THE PC CARRYING OUT BELONGS THE UPDATE, IT IS IMPERATIF THAT THE ETHERNET ADDRESS OF CUSTO LAN EIB CORRESPONDS A VALID ADDRESS OF EC NETWORK.

7-TECHNICAL SPECIFICATIONS

Ethernet Interface : 10 Base T
Cable : CAT5
Protocol : UDP
Port : 12000 (by defect)
Connector : RJ45

serie Interface : RS485
Speed : 115200
Parameters of communication : 8 bits of data by caracter, 1 bit of stop, not of parity
Connector RS485 : MC1,5/3-G-3,81 (Manufacturer : Phoenix Contact)

Consumption : 50 mA max – 12Vdc
External Connector alimentation : MC1,5/2-G-3,81 (Manufacturer : Phoenix Contact)
Protection by polyswitch
Alimentation PoE (standard 802.3af)

Connector X10 : RJ12 6P/4C
Connector EIB : MC1,5/2-G-3,81 (Manufacturer : Phoenix Contact)

Dimensions : 126 x 85 x 31 mm
Weight : 420 g

Options :

- Injector PoE (Reference : SP390)

- Hub PoE (Reference : SP616P)

- Kit Rail DIN (Reference : CUSTO/DIN)

- interface XM10E

8- Brands compatible with Media Bus Control® Automation Systems

MEDIA BUS CONTROL automation systems is compatible to drive many brands of the AV manufacturers, lights manufacturers and EIB manufacturers. You will find here a list with main brands, but Media Bus Control can control more systems...

3M, ABB, Adtec, Akg, AllenHeath, Analogway, Ask, Autopatch, Barco, Behringer, Biamp, Canon, Clipsal, CommTec, DIS, Epson, Extron, Faroudja, Fostex, Gyra, Hager, Imerge, Jung, JVC, Kenwwod, Knox, Kodak, Kramer, Legrand, Lexicon, Lightec, Lite Touch, Lutron, Meridian, Merten, Mitsubishi, Nec, Niko, Onkyo, Panasonic, Phillips, Pioneer, Pixelmagics, Proxima, RGB Spectrum, Samsung, Sennheiser, Siemens, Sharp, Sony, Tasca, Theben, Vigatec, Vity, Xantech, Yamaha, Zumtobel... and more.

9- WARRANTY

1- VITY Warranty
VITY Technology Headquarters, France and its subsidiaries VITY china, VITY USA, warrant their products any defects in materials and workmanship for a period of 2 years from the date of the invoice. This warranty concerns products manufactured by VITY Technology. A return material authorization (RMA) must be obtained from VITY before products are returned for service. This authorization can be obtain on the website of vity : www.vity.com and have to be returned by fax to VITY - +33 297 89 20 10. In the case of product is distributed by Vity Technology, the applicable warranty is the warranty of the manufacturer and can be less or more than 2 years. This warranty will be specified on the invoice.
Warranty of CUSTO LAN EIB: 2 years

2- What This Warranty Does Not Cover
This warranty does not apply to (a) any VITY product that has been modified, altered or repaired by an unauthorized agent or improperly transported, stored, installed, used, or maintained; (b) damage caused by acts of nature, including flood, erosion, or earthquake; (c) damage caused by a sustained low or high voltage situation or by a low or high voltage disturbance, including brownouts, sags, spikes, or power outages; or (d) damage caused by war, vandalism, theft, depletion, or obsolescence.

3- Disclaimer of Other Warranties
The warranties contained in Section 1 are the exclusive warranties given by VITY and supersede any prior, contrary or additional representations, whether oral or written. VITY disclaims and excludes all other warranties – whether express, implied, or statutory.

4- Buyer's Exclusive Remedies for Any Nonconformity
If a VITY product fails to conform to the warranties in Section 1, Buyer must notify VITY within a reasonable time and in no event more than thirty (30) days after the discovery of the nonconformity, and VITY will repair any nonconforming products or components.

5- Application of the warranty
During the period of warranty, VITY Technology will repair the defective units free. The defective products must be sent to your expenses to the VITY Technology's offices (Caudan). The repaired units will be turned over to our expenses with the recipient. Apart from the period of warranty, VITY Technology will repair the defective units in its offices at Caudan, and the cost of repair will be the responsibility of the customer. In the case of the defected product was bought to a Vity subsidiary or a Vity distributor, you have to return it directly to them.

6- Exclusion of Consequential and Incidental Damages.
Vity shall be not liable under any circumstances for consequential or incidental damages including, but not limited to, labour costs or loss of profits arising in connection with the use of or the inability to use Vity products.

7- Transport Damage
VITY will not be responsible for items damaged during shipment to or from VITY. The shipping carrier is responsible for items damaged during shipment.

8- No Modifications
This warranty may not be modified except in writing by an authorized VITY officer.

9- Other Notice
VITY reserves the right to modify or discontinue designs, specifications, warranties, prices, and policies without prior notice.